

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Margaret B. Medley Examiner #: 60850 Date: 11-7-01
 Art Unit: 1714 Phone Number 308-29718 Serial Number: 09/604225
 Mail Box and Bldg/Room Location: 3E16 Results Format Preferred (circle): PAPER DISK E-MAIL

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 If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Fabricant Containing Polyphenylene Imide and Sulfonamide

Inventors (please provide full names): Vincent G. Gatt James Gatt Mark Thomas Devin

Earliest Priority Filing Date: 11/20/95

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please do a Litigation Search.

5,650,381

— NO REPORTED LITIGATION —

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	Type of Search	Vendors and cost where applicable
Searcher: <u>ELP</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: _____	AA Sequence (#) _____	Dialog <u>\$15</u>
Searcher Location: _____	Structure (#) _____	Questel/Orbit <u>\$15</u>
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Date Completed: <u>11-7-01</u>	Litigation <u>X</u>	Lexis/Nexis <u>\$10</u>
Searcher Prep & Review Time: <u>2</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
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PATNO IS 5650381

Lexis search

DATE: NOVEMBER 7, 2001
LIBRARY: PATENT
FILE: ALL

Your search request is:
PATNO IS 5650381

Number of PATENTS found with your search request through:
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.
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LEVEL 1 - 1 PATENT

1. 5,650,381, Jul. 22, 1997, Lubricant containing molybdenum compound and secondary diarylamine, Gatto, Vincent James, Midlothian, Virginia Devlin, Mark Thomas, Richmond, Virginia, Ethyl Corporation, Richmond, Virginia (02)

CORE TERMS: molybdenum, oil, acid, compound, amine, composition, additive, oxidation, sulfur, antioxidant...

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LEVEL 1 - 1 OF 1 PATENT

5,650,381

Jul. 22, 1997

Lubricant containing molybdenum compound and secondary
diarylamine

LIT-REEX: Reexamination requested May 10, 2000 by Bruce S. Londa, Londa and
Gluck, Reexamination No. 90/005,720 (O.G. Jun. 13, 2000) Ex. Gp.: 1764

REISSUE: This Patent was reissued on Sep. 11, 2001 as Reissue Patent Re 37,363.

Reissue Application filed Jun. 26, 2000 (O.G. Aug. 7, 2001) Ex. Gp.: 1721;
Re. S.N. 09/604,285

Reissue Application filed Jul. 22, 1999 (O.G. Nov. 16, 1999) Ex. Gp.: 1721;
Re. S.N. 09/359,770

CERTCORR: Apr. 21, 1998 a Certificate of Correction was issued for this patent

Nov. 18, 1997 a Certificate of Correction was issued for this patent

Lubricant

Reexamined
in part

Patent

01/04
04/2

01/04
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01/04

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5,650,381 OR 5650381

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ORBIT-QUESTEL

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Selected file: LGST

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For information on content, ..INFO LGST

Search statement 1

?/pn us5650381

** SS 1: Results 1

Search statement 2

?prt pset 1

1/1 LGST - (C) LEGSTAT

Patent Number	-US 5650381 [US5650381]
Application Number	-US 559879/95 19951120 [1995US-0559879]
Document Type	-US-P
Action Taken	-19951120 US/AE-A APPLICATION DATA (PATENT) {US 559879/95 19951120 [1995US-0559879]} -19970304 US/AS02 ASSIGNMENT OF ASSIGNOR'S INTEREST ETHYL CORPORATION 330 SOUTH 4TH STREET RICHMOND, VIRGINIA 23219 * GATTO, VINCENT JAMES : 19951110; DEVLIN, MARK THOMAS : 19951110 -19970722 US/A PATENT -19971118 US/CC CERTIFICATE OF CORRECTION -19980421 US/CC CERTIFICATE OF CORRECTION -19991116 US/RF REISSUE APPLICATION FILED 19990722 -20000613 US/RR [+] REQUEST FOR REEXAMINATION FILED 20000510 -20010807 US/RF REISSUE APPLICATION FILED 20000626 -2001-33

Update Code

Search statement 2

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Selected file: LITA

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For technical content information : see INFO LITA

Search statement 1

?nbr /pn us5650381

1 1 US5649756
2 2 US5649917
3 1 US5650023
4 2 US5650199
5 1 US5650213
6 1 US5650384
7 1 US5650563
8 1 US5650666
9 2 US5650770
10 2 US5650928
11 1 US5650930
12 1 US5650955
13 1 US5651108
14 1 US5651158
15 1 US5651481

no citations for 1381 in LITALERT

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?file past

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Information on technical content of this file, see INFO PAST

Search statement 1

?nbr /pn us5650381

1 1 US5650373
2 1 US5650374
3 1 US5650375
4 1 US5650379
5 6 US5650381
6 1 US5650383
7 1 US5650384
8 1 US5650387
9 1 US5650388
10 1 US5650392
11 1 US5650394
12 1 US5650399
13 2 US5650405
14 1 US5650409
15 1 US5650411

Some: numbers / Continue: Y / None: N

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** SS 1: Results 6
Continue: Y / N

?prt pset 1 1-6

1/6 PAST - (C) PAST
Accession Number -200137-001427
Patent Number -5650381 A [US5650381]
Official Gazette Dat-2001-09-11
Actions -REISSUE PATENT
Related -USRE37363

2/6 PAST - (C) PAST
Accession Number -200132-001399
Patent Number -5650381 A [US5650381]
Official Gazette Dat-2001-08-07
Actions -REISSUE APPLICATION FILED

3/6 PAST - (C) PAST
Accession Number -200024-000513
Patent Number -5650381 A [US5650381]
Official Gazette Dat-2000-06-13
Actions -REQUEST FOR REEXAMINATION FILED

4/6 PAST - (C) PAST
Accession Number -199946-001415
Patent Number -5650381 A [US5650381]
Official Gazette Dat-1999-11-16
Actions -REISSUE APPLICATION FILED

5/6 PAST - (C) PAST
Accession Number -199816-000106
Patent Number -5650381 A [US5650381]
Official Gazette Dat-1998-04-21
Actions (C) -CERTIFICATE OF CORRECTION

6/6 PAST - (C) PAST
Accession Number -199746-000052
Patent Number -5650381 A [US5650381]
Official Gazette Dat-1997-11-18
Actions (C) -CERTIFICATE OF CORRECTION

File 345:Inpadoc/Fam.& Legal Stat 1968-2001/UD=200143
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Set	Items	Description
S1	1	PN=US 5650381

1/9/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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Basic Patent (No,Kind,Date): GB 9624118 A0 19970108 <No. of Patents: 007>

PATENT FAMILY:
CANADA (CA)

Patent (No,Kind,Date): CA 2189387 AA 19970521
LUBRICANT CONTAINING MOLYBDENUM COMPOUND AND SECONDARY DIARYLAMINE
(English; French)
Patent Assignee: ETHYL CORP (US)
Author (Inventor): GATTO VINCENT JAMES (US); DEVLIN MARK THOMAS (US)
Priority (No,Kind,Date): US 559879 A 19951120
Applic (No,Kind,Date): CA 2189387 A 19961101
IPC: * C10M-141/00; C10M-141/12; C10M-133/12; C10M-141/06
Language of Document: English

GREAT BRITAIN (GB)

Patent (No,Kind,Date): GB 9624118 A0 19970108
LUBRICATING COMPOSITION AND LUBRICATING CONCENTRATE AND METHOD OF
IMPROVING ANTIOXIDANCY AND FRICTION PROPERTIES OF A LUBRICANT
(English)
Patent Assignee: ETHYL CORP
Priority (No,Kind,Date): US 559879 A 19951120
Applic (No,Kind,Date): GB 9624118 A 19961120
Derwent WPI Acc No: * C 97-248109
Language of Document: English

Patent (No,Kind,Date): GB 2307245 A1 19970521
LUBRICATING COMPOSITION (English)
Patent Assignee: ETHYL CORP (US)
Author (Inventor): GATTO VINCENT JAMES; DEVLIN MARK THOMAS
Priority (No,Kind,Date): US 559879 A 19951120
Applic (No,Kind,Date): GB 9624118 A 19961120
National Class: * C5F FKL FKL; C5F F101 FKL; C5F F102 FKL; C5F F111
FKL; C5F F117 FKL; C5F F121 FKL; C5F F131 FKL; C5F F140 FKL
IPC: * C10M-141/06; C10M-139/06; C10M-141/12
CA Abstract No: ; 127(10)137963B
Derwent WPI Acc No: ; C 97-248109
Language of Document: English

Patent (No,Kind,Date): GB 2307245 B2 20000712
LUBRICATING COMPOSITION AND LUBRICATING CONCENTRATE AND METHOD OF
IMPROVING ANTIOXIDANCY AND FRICTION PROPERTIES OF A LUBRICANT
(English)
Patent Assignee: ETHYL CORP (US)
Author (Inventor): GATTO VINCENT JAMES (US); DEVLIN MARK THOMAS (US)
Priority (No,Kind,Date): US 559879 A 19951120
Applic (No,Kind,Date): GB 9624118 A 19961120
National Class: * C5F FKL FKL; C5F F101 FKL; C5F F102 FKL; C5F F111
FKL; C5F F117 FKL; C5F F121 FKL; C5F F131 FKL; C5F F140 FKL
IPC: * C10M-141/06; C10M-139/06; C10M-141/12
CA Abstract No: * 127(10)137963B
Derwent WPI Acc No: * C 97-248109

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Language of Document: English

GREAT BRITAIN (GB)

Legal Status (No, Type, Date, Code, Text):

GB 2307245	P	19951120	GB AA	PRIORITY (PATENT)
			US 559879 A	19951120
GB 2307245	P	19961120	GB AE	APPLICATION DATA (APPL. DATA)
			GB 9624118 A	19961120
GB 2307245	P	19970521	GB A1	APPLICATION PUBLISHED (APPL. PUBLISHED)
GB 2307245	P	20000712	GB B2	PATENT GRANTED

JAPAN (JP)

Patent (No, Kind, Date): JP 9151387 A2 19970610

LUBRICANT CONTAINING MOLYBDENUM COMPOUND AND SEC. DIARYLAMINE (English)

Patent Assignee: ETHYL CORP

Author (Inventor): BINSENTO JIEIMUZU GATSUTO; MAAKU TOOMASU DEBURIN

Priority (No, Kind, Date): US 559879 A 19951120

Applic (No, Kind, Date): JP 96323294 A 19961120

IPC: * C10M-141/06; C10M-133-12; C10M-129-26; C10N-010-12; C10N-030-06
; C10N-030-10

Derwent WPI Acc No: * C 97-248109

Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No, Kind, Date): US 5650381 A 19970722

LUBRICANT CONTAINING MOLYBDENUM COMPOUND AND SECONDARY DIARYLAMINE (English)

Patent Assignee: ETHYL CORP (US)

Author (Inventor): GATTO VINCENT JAMES (US); DEVLIN MARK THOMAS (US)

Priority (No, Kind, Date): US 559879 A 19951120

Applic (No, Kind, Date): US 559879 A 19951120

National Class: * 508364000; 508527000

IPC: * C10M-141/02; C10M-141/06; C10M-141/12

Derwent WPI Acc No: * C 97-248109

Language of Document: English

Patent (No, Kind, Date): US 37363 E1 20010911

LUBRICANT CONTAINING MOLYBDENUM COMPOUND AND SECONDARY DIARYLAMINE (English)

Patent Assignee: ETHYL CORP (US)

Author (Inventor): GATTO VINCENT JAMES (US); DEVLIN MARK THOMAS (US)

Priority (No, Kind, Date): US 359770 A 19990722; US 559879 A5
19951120

Applic (No, Kind, Date): US 359770 A 19990722

National Class: * 508364000; 508527000

IPC: * C10M-141/02; C10M-141/06; C10M-141/12

CA Abstract No: * 127(10)137963B

Derwent WPI Acc No: * C 97-248109

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No, Type, Date, Code, Text):

US 37363	(No, Type, Date, Code, Text):	E	19951120	US AA	PRIORITY
				US 559879 A5	19951120
US 37363		E	19990722	US AE	APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))	
				US 359770 A	19990722
US 37363		E	20010911	US E1	REISSUE (PRE-GRANT)
US 5650381		P	19951120	US AE	APPLICATION DATA (PATENT)

(APPL. DATA (PATENT))

US 559879 A 19951120

US 5650381 P 19970304 US AS02 ASSIGNMENT OF ASSIGNOR'S
INTEREST

ETHYL CORPORATION 330 SOUTH 4TH STREET
RICHMOND, VIRGINIA 23219 ; GATTO, VINCENT
JAMES : 19951110; DEVLIN, MARK THOMAS :
19951110

US 5650381 P 19970722 US A PATENT

US 5650381 P 19971118 US CC CERTIFICATE OF CORRECTION

US 5650381 P 19980421 US CC CERTIFICATE OF CORRECTION

US 5650381 P 19991116 US RF REISSUE APPLICATION FILED

(REISSUE APPL. FILED)

19990722

US 5650381 P 20000613 US RR REQUEST FOR REEXAMINATION
FILED

20000510

US 5650381 P 20010807 US RF REISSUE APPLICATION FILED

(REISSUE APPL. FILED)

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